

chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

chain bonds :

1-2 2-3 3-4 3-10 4-5 5-6 6-7 7-8 7-11 8-9 10-12 12-13 13-14 13-16

14-15

exact/norm bonds :

1-2 3-10 4-5 5-6 7-11 8-9 10-12 13-16

exact bonds :

2-3 3-4 6-7 7-8 12-13 13-14 14-15

G1:C,H

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

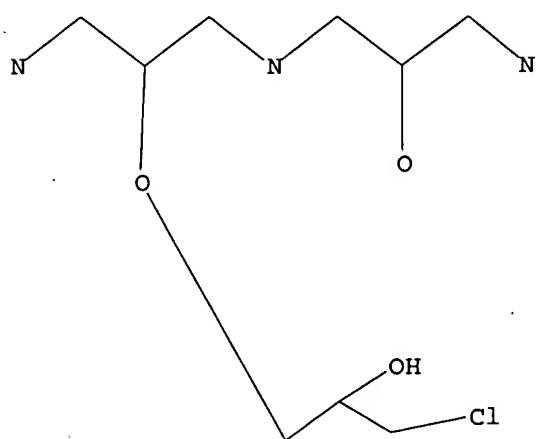
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



G1 C,H

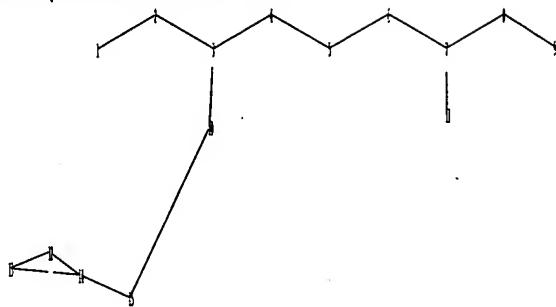
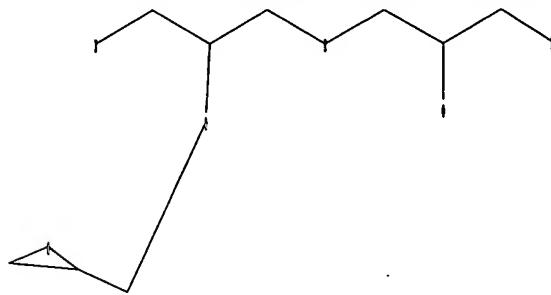
Structure attributes must be viewed using STN Express query preparation.

=> s 11 ful
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 FULL SCREEN SEARCH COMPLETED - 109 TO ITERATE

100.0% PROCESSED 109 ITERATIONS 0 ANSWERS
 SEARCH TIME: 00.00.01

L2 0 SEA SSS FUL L1

=>
 Uploading C:\Program Files\Stnexp\Queries\10-795772a1.str



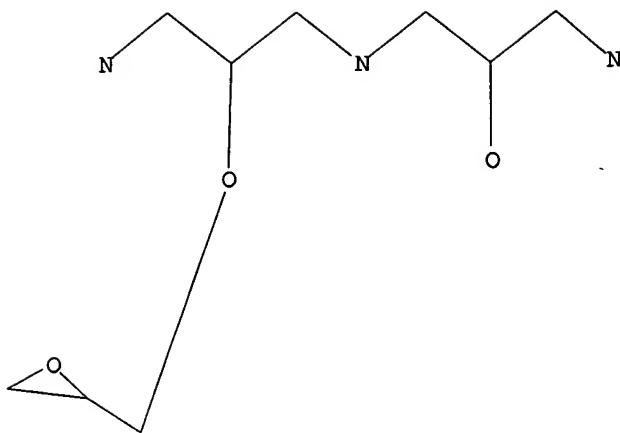
chain nodes :
 1 2 3 4 5 6 7 8 9 10 11 15
 ring nodes :
 12 13 14
 chain bonds :
 1-2 2-3 3-4 3-10 4-5 5-6 6-7 7-8 7-11 8-9 10-15 14-15
 ring bonds :
 12-13 12-14 13-14
 exact/norm bonds :
 1-2 3-10 4-5 5-6 7-11 8-9 10-15 12-13 12-14 13-14
 exact bonds :
 2-3 3-4 6-7 7-8 14-15

G1:C,H

Match level :
 1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
 10:CLASS 11:CLASS 12:Atom 13:Atom 14:Atom 15:CLASS

L3 STRUCTURE UPLOADED

=> d
 L3 HAS NO ANSWERS
 L3 STR



G1 C,H

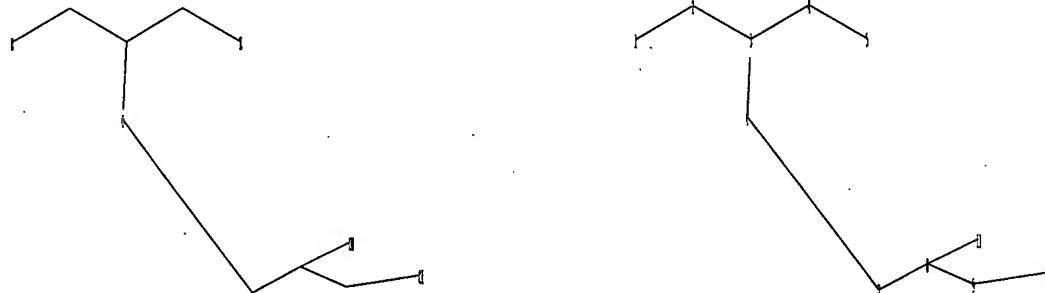
Structure attributes must be viewed using STN Express query preparation.

=> s 13 ful
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 FULL SCREEN SEARCH COMPLETED - 891 TO ITERATE

100.0% PROCESSED 891 ITERATIONS 0 ANSWERS
 SEARCH TIME: 00.00.01

L4 0 SEA SSS FUL L3

=>
 Uploading C:\Program Files\Stnexp\Queries\10-795772a3.str



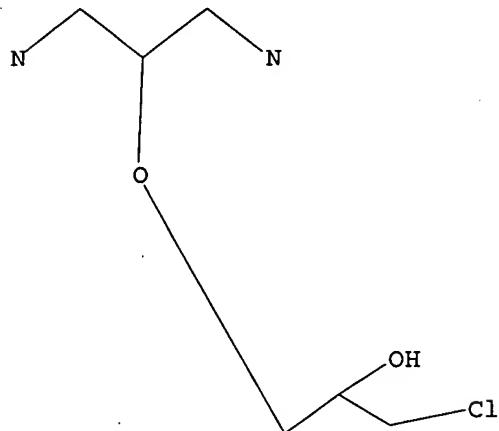
chain nodes :
 1 2 3 4 5 6 7 8 9 10 11
 chain bonds :
 1-2 2-3 3-4 3-6 4-5 6-7 7-8 8-9 8-11 9-10
 exact/norm bonds :
 1-2 3-6 4-5 6-7 8-11
 exact bonds :
 2-3 3-4 7-8 8-9 9-10

G1:C,H

Match level :
 1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
 10:CLASS 11:CLASS

L5 STRUCTURE UPLOADED

=> d
 L5 HAS NO ANSWERS
 L5 STR



G1 C,H

Structure attributes must be viewed using STN Express query preparation.

=> s 15 ful
 FULL SEARCH INITIATED 13:54:51 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 186 TO ITERATE

100.0% PROCESSED 186 ITERATIONS 2 ANSWERS
 SEARCH TIME: 00.00.01

L6 2 SEA SSS FUL L5

=> fil caplus
 COST IN U.S. DOLLARS SINCE FILE TOTAL
 ENTRY SESSION
 FULL ESTIMATED COST 500.82 501.03

FILE 'CAPLUS' ENTERED AT 13:54:58 ON 28 DEC 2006
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FILE COVERS 1907 - 28 Dec 2006 VOL 146 ISS 1
FILE LAST UPDATED: 27 Dec 2006 (20061227/ED)

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<http://www.cas.org/infopolicy.html>

=> s 15
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 13:55:00 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 11 TO ITERATE

100.0% PROCESSED 11 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 22 TO 418
PROJECTED ANSWERS: 0 TO 0

L7 0 SEA SSS SAM L5

L8 0 L7

=> s 16
L9 1 L6

=> d fbib ed

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1879-126958 CAPLUS
DN 90:126958
TI Use of water-soluble polyelectrolytes as flocculants for clarification of
waste waters during the working of placer deposits
AU Eseenovskaya, L. N.; Turchaninova, L. P.; Tsarik, L. Ya.; Chikin, Yu. M.
CS Inst. Nefte- Uglekhim. Sint., Angarsk, USSR
SO Zhurnal Prikladnoi Khimii (Sankt-Peterburg, Russian Federation) (1978),
51(7), 1551-5
CODEN: ZPKHAB; ISSN: 0044-4618
DT Journal
LA Russian
ED Entered STN: 12 May 1984

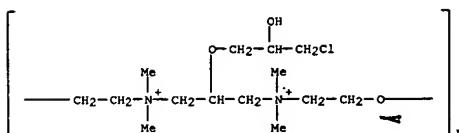
=> d abs hitstr

19 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
 AB Wastewaters (containing a high concentration of finely dispersed clay)
 were treated by com. polyelectrolytes. The effectiveness of a flocculant was assessed
 by measuring the settling rate of the flocculated particles. All
 cationic polyelectrolytes were effective. High-mol.-weight polymers gave the best
 results. Polyelectrolytes were recommended for industrial application.
 The addition of 6-8 mg/L of VA-2 [26780-21-2] (mol. weight 60,000)

reduced the turbidity from 8 g/L to 20 mg/L after 2-4 h settling. The optimum
 polyelectrolyte dosage is substantially less than that of inorg.
 coagulants for the same degree of clarification.

IT 69684-13-5
 RL: POC (Process)
 RN 69684-13-5 CAPLUS

CN Poly[oxy-1,2-ethanediyl(dimethylimino){2-(3-chloro-2-hydroxypropoxy)-1,3-
 propanediyl}(dimethylimino)-1,2-ethanediyl dichloride] (9CI) (CA INDEX
 NAME)



●2 Cl⁻

=> FIL STNGUIDE	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	5.57	507.50
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	-0.75	-0.75

FILE 'STNGUIDE' ENTERED AT 13:55:31 ON 28 DEC 2006
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 AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Dec 22, 2006 (20061222/UP).

=> fil reg	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	0.12	507.62
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	0.00	-0.75

FILE 'REGISTRY' ENTERED AT 13:56:59 ON 28 DEC 2006
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STRUCTURE FILE UPDATES: 27 DEC 2006 HIGHEST RN 916420-05-8
 DICTIONARY FILE UPDATES: 27 DEC 2006 HIGHEST RN 916420-05-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

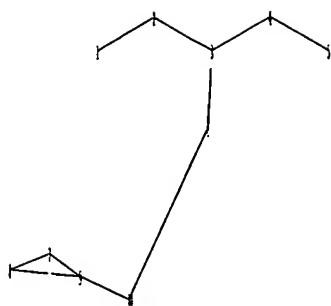
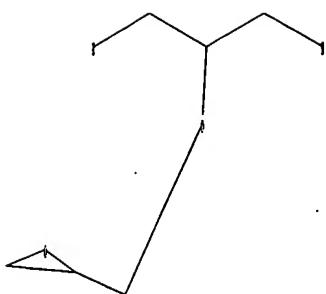
TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
 predicted properties as well as tags indicating availability of
 experimental property data in the original document. For information
 on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>
 Uploading C:\Program Files\Stnexp\Queries\10-795772a4.str



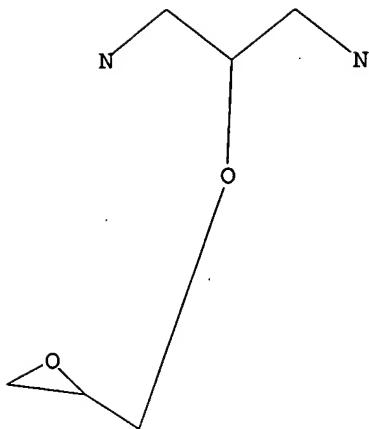
chain nodes :
1 2 3 4 5 6 10
ring nodes :
7 8 9
chain bonds :
1-2 2-3 3-4 3-6 4-5 6-10 9-10
ring bonds :
7-8 7-9 8-9
exact/norm bonds :
1-2 3-6 4-5 6-10 7-8 7-9 8-9
exact bonds :
2-3 3-4 9-10

G1:C,H

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:Atom 9:Atom
10:CLASS

L10 STRUCTURE UPLOADED

=> d
L10 HAS NO ANSWERS
L10 STR



G1 C,H

Structure attributes must be viewed using STN Express query preparation.

```
=> s 110 ful
FULL SEARCH INITIATED 13:57:13 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1166 TO ITERATE
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100.0% PROCESSED 1166 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01
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```
L11 3 SEA SSS FUL L10
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=> fil caplus			
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FULL ESTIMATED COST	ENTRY	SESSION	
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL	
CA SUBSCRIBER PRICE	ENTRY	SESSION	
	0.00	-0.75	

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FILE COVERS 1907 - 28 Dec 2006 VOL 146 ISS 1
FILE LAST UPDATED: 27 Dec 2006 (20061227/ED)

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They are available for your review at:

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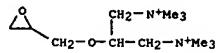
=> s l11
L12 2 L11

=> d fbib ed abs hitstr tot

L12 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2005:985119 CAPLUS
 DN 143:250074
 TI Synthetic multiple quaternary ammonium salts useful for quaternization of polymers, etc.
 IN Lang, Wellian; Little, Charles; Van De Pas, Victor
 PA USA
 SO U.S. Pat. Appl. Publ., 10 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN. CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2005194113	A1	20050908	US 2004-795772	20040308
CA 2558673	A1	20051020	US 2004-550274P	P 20040305
			CA 2005-2558673	20050301
			US 2004-550274P	P 20040305
			US 2004-795772	A 20040308
			WO 2005-097732	W 20050301
WO 2005097732	A1	20051020	WO 2005-US6552	20050301
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, C2, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, T2, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CG, CI, CM, GA, GN, GO, GW, MW, MR, NE, SN, TD, TG			US 2004-550274P	P 20040305
EP 1720824	A1	20061115	EP 2005-724150	20050301
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR			US 2004-550274P	P 20040305
			US 2004-795772	A 20040308
			WO 2005-US6552	W 20050301
OS MARPAT 143:250074				
ED Entered STN: 09 Sep 2005				
AB This invention pertains to novel multiple quaternary ammonium salts and their derivs. of the formula				
[R3R2R1N+CH2CH(OR6)CH2N+R4R5CH2CH(OR6)CH2N+R1]				
'R2'R3'1A-(R1,R1',R2,R2',R3,R3',R4,R5 = alkyl, aryl, aralkyl, -CH2CH(OR6)CH2N+R1R2R3; z1 of R6 = glycidyl, 3-chloro-2-hydroxypropyl; A = anion). This invention also pertains to multiple quaternary ammonium salts and their derivs. represented by the formula [R3R2R1N+CH2CH(OR4)CH2N+R4R5]A-(R1,R1',R2,R2',R3,R3',R4,R5 = alkyl, aryl, aralkyl, -CH2CH(OR4)CH2N+R1R2R3; z1 of R4 = glycidyl, 3-chloro-2-hydroxypropyl; A = anion).				
IT 863477-00-3				
RL: RCT (Reactant); RACT (Reactant or reagent)				

L12 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 (synthetic multiple quaternary ammonium salts useful for quaternization of polymers, etc.)
 RN 863477-00-3 CAPLUS
 CN 1,3-Propanediaminium, N,N,N',N'-hexamethyl-2-(oxiranylmethoxy)-dichloride (9CI) (CA INDEX NAME)



L12 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1991:680870 CAPLUS
 DN 115:280870
 TI Complexes of complexing agents bonded to cascade polymers for use in pharmaceuticals
 IN Platzek, Johannes; Schmitt-Willich, Heribert; Gries, Heinz; Schuhmann-Giampieri, Gabriele; Vogler, Hubert; Weinmann, Hanns Joachim; Bauer, Hans
 PA Schering A.-G., Pol.
 SO Ger. Offen. 36 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN. CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3938982	A1	19910523	DE 1989-3938992	19891121
EP 430863	A2	19910605	EP 1990-730017	19901119
EP 430863	A3	19920304		
EP 430863	B1	19950517		
EP 430863	B2	19990825		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE			DE 1989-3938992	A 19891121
ES 2073006	T3	19950801	ES 1990-730017	19901119
HU 56121	A2	19910729	DE 1989-3938992	A 19891121
CA 2030472	A1	19910522	DE 1989-3938992	A 19891121
CA 2030472	C	20030610	CA 1990-2030472	19901121
FI 9005744	A	19910522	DE 1989-3938992	A 19891121
FI 107931	B1	20011031	FI 1990-5744	19901121
NO 9005037	A	19910522	DE 1989-3938992	A 19891121
NO 178032	B	19951002	NO 1990-5037	19901121
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AU 9066859	A	19910530	AU 1990-66859	19901121
AU 6844453	B2	19971218	DE 1989-3938992	A 19891121
JP 03246234	A	19911101	JP 1990-114440	19901121
JP 3179092	B2	20010625	DE 1989-3938992	A 19891121
ZA 9009352	A	19911224	ZA 1990-9352	19901121
US 5364614	A	19941115	DE 1989-3938992	A 19891121
IL 96434	A	19950124	DE 1989-3938992	A 19891121
KR 202796	B1	19990615	IL 1990-96434	19901121
JP 2000355593	A	20001226	DE 1989-3938992	A 19891121
GR 3031629	T3	20000131	KR 1990-18949	19901121
US 200206037	A1	20020606	DE 1989-3938992	A 19891121
US 6576222	B2	20030610	US 2001-973836	20011011
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			US 1990-617077	A 19901121
			US 1994-209098	B1 19940311
			US 1994-353390	A1 19941202
			US 1996-743535	A3 19961104
			US 1998-156048	A3 19980917
			US 2000-510363	A3 20000222
			US 2000-628179	A3 20000728
			US 2001-973836	A3 20011011
			US 2002-316094	A3 20021211

L12 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 US 1994-209098 B1 19940311
 US 1994-353390 A1 19941202
 US 1996-743535 A3 19961104
 US 1998-156048 A3 19980917
 US 2000-510363 A3 20000222
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 DE 1989-3938992 A 19891121
 US 1990-617077 A1 19901121
 US 1994-209098 B1 19940311
 US 1994-353390 A1 19941202
 US 1996-743535 A3 19961104
 US 1998-156048 A3 19980917
 US 2000-510363 A3 20000222
 US 2000-628179 A3 20000728
 US 2001-973836 A3 20011011
 US 2002-316094 A3 20021211
 ED Entered STN: 27 Dec 1991
 AB Cascade polymers containing complexing ligands and, optionally, z1 ions of elements with atomic number 21-29, 42, 44, or 57-83 and cations of inorg. or organic bases, amino acids, or amino amides are useful in magnetic resonance imaging and x-ray diagnosis. The reaction of 50 mmol N(CH2CH2NH2)2 with 600 mmol Me acrylate (I) in MeOH at room temperature gave 92.3% hexa-Me ester of the cascade polymer which was treated (40 mmol) with 3.6 mmol ethylenediamine (II) in MeOH to give 94% hexa-amine derivative, successive reactions of which with I and II gave a tetracosa-amine derivative of a tetracosa-Me ester containing 25.27% N. Treating 4.94 g this polymer with 29.04 g N3-[2,6-dioxomorpholinol-ethyl]-N6-(2-carbethoxyethyl)-3,6-diazaoctanedioic acid in H2O at pH 9.0, adjusting the pH to 7 by ion exchange, ultrafiltration, and freeze drying gave 13.6 g powder, 10.0 g of which was stirred with 2.77 g Gd2O3 in H2O at 80° for 30 min to give 12.1 g polymer containing 17.9% Gd and 5.6% H2O, with T1 relaxivity 12.98 and 13.23 L/mmol-s in H2O and plasma, resp.
 IT 136533-08-9
 RL: PREP (Preparation)
 (preparation of, and reaction with hexaaminohexadeoxycyclodextrin hexahydrochloride)
 RN 136533-08-9 CAPLUS
 CN 1,3-Propanediaminium, 2-(oxiranylmethoxy)-N,N',N'-tetrakis(phenylmethyl)- (9CI) (CA INDEX NAME)

L12 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

